Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_

**Ratio Relationships**

**Write each ratio in simplest form.**

1) A class has 6 boys and 15 girls. What is the ratio of girls to boys? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) An animal shelter has 39 kittens and 15 puppies. What is the ratio of puppies to total animals?\_\_\_\_\_\_\_\_\_\_

3) There are 18 baseballs, 12 basketballs, and 10 soccer balls. What is the ratio of baseballs to soccer balls and basketballs? \_\_\_\_\_\_

**Use any method to solve the problem. Show your work!**

4) To make 5 apple pies, you need about 2 pounds of apples. How many pounds of apples do you need to make 20 apple pies?

5) At a car lot, 5 trucks are sold for every 9 cars sold. If 27 cars are sold, how many trucks should the car lot expect to sell?

6) During last baseball season, Jeff struck out 3 out of every 12 times at bat. If Jeff goes to bat 40 times, how many times should he expect to strike out?

7) At the video store, an average of 2.5 games are rented for every 15 movies that are rented. If 14 games are rented, how many movies should the store expect to rent?

8) Li mixes 3 cups of red paint with 4 cups of white paint to get pink. How many cups of red paint should she mix with 10 cups of white paint to get the same shade of pink?

9) Barbara’s goal is to practice piano at home 20 minutes for every 5 minutes of lessons she takes. If she takes an hour-and-a-half piano lesson this week, how many minutes should she practice this week at home?

10) To make 8 peach pies, you need about 1.5 pounds of peaches. The bakery received a special order of 4 ½ dozen pies for an event. How many pounds of peaches do they need?

11) Axl mixes 4 cups of red paint with 7.5 cups of blue paint to get purple. How many cups of blue paint should she mix with 20 cups of red paint to get the same shade of purple?

12) Tanis’s goal is to practice soccer at home 30 minutes for every 0.5 hour lesson she takes. If she takes a lesson for 1.25 hours, how many minutes should she practice at home?

13) Amy is entering a bike race for charity. Her mother pledges $0.75 for every 0.5 mile she bikes. If Amy bikes 4 miles, how much will her mother donate?

14) Recently 1 U.S. dollar was worth 0.68 euros. If you exchanged $5 at that rate, how many euros would you get?

15) On a bike trip across the United States, Rodney notes that he covers about 190 miles every 4 days. If he continues at this rate, determine about how many miles he could bike in 6 days?

16) Landon owns a hybrid SUV that can travel 400 miles on 15-gallon tank of gas. Determine how many miles he can travel on 6 gallons of gas?

17) A veterinarian checked elephants’ weights in kilograms. On average, the babies weight 1,000 kg for every 10,000 the adults weigh. If one adult and one baby have a combined weight of 110,000 kg, what is the baby’s weight?